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MORBIDITY AND MORTALITY WEEKLY REPORT

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Current Trends

Update: Acquired Immunodeficiency Syndrome—United States

As of December 8, 1986, physicians and health departments in the United States had reported 28,098 patients (27,704 adults and 394 children) meeting the acquired immunodeficiency syndrome (AIDS) case definition for national reporting (1-3). Of these patients, 15,757 (56% of adults and 61% of children) are known to have died, including over 79% of those patients diagnosed before January 1985. Since the initial reports of AIDS in early 1981 (4-5), the number of cases reported for each 6-month period continues to increase. However, the increases are not exponential, as evidenced by the lengthening period of time required to double the number of cases (Table 1). During the past 3 months, an average of 58 AIDS cases have been reported to CDC daily. This compares with 35 cases reported during the same period in 1985, 20 cases in 1984, and 10 cases in 1983. Cases have been reported from all 50 states, the District of Columbia, and four U.S. Territories.

Adult patients. Among adult AIDS patients, 25,834 (93%) are men. There has been no significant change over time in distribution of male patients by age and race. Ninety percent of men with AIDS are 20 to 49 years of age (mean = 36.8 years); 63% are white; 22%, black; 14%, Hispanic; and 1%, other or unknown race/ethnicity.

Pneumocystis carinii pneumonia (PCP) continues to be the most common opportunistic disease reported among AIDS patients. Sixty-four percent of men had PCP; 21% had other opportunistic diseases without PCP; and 15% had Kaposi's sarcoma (KS) alone. Ninety-five percent of patients with KS have been homosexual or bisexual men.

TABLE 1. Acquired immunodeficiency syndrome cases, by date of report and doubling time—United States, through December 8, 1986

Cumulative cases reported	Date*	Doubling time* (months)
110	September 1981	-
220	January 1982	5
439	June 1982	6
878	December 1982	6
1,756	July 1983	7
3,512	February 1984	8
7,025	December 1984	9
14,049	October 1985	11
28,098	December 1986	13

*Doubling time was calculated in days but is reported here to nearest month.

AIDS - Continued

Women with AIDS have been reported from 41 states, the District of Columbia, and three territories. The number of cases varies greatly by reporting area and ranges from one to 877 (median = 6); seventy-two percent of female cases were reported from Florida, New Jersey, and New York (42% of male cases were reported from these three states). Eighty-eight percent of women reported with AIDS are 20 to 49 years of age (mean = 34.9 years); 27% are white; 52%, black; 20%, Hispanic; and 1%, other or unknown race/ethnicity. Sixty-seven percent of women had PCP, 31% had other opportunistic diseases without PCP, and 2% had KS alone.

Ninety-seven percent of all adult AIDS patients can be placed in groups* that suggest a possible means of disease acquisition. Homosexual or bisexual men who are not known to have used intravenous (IV) drugs represent 66% of all reported cases (70% of male cases). Heterosexual IV drug users comprise 17% of all cases (15% of male cases and 51% of female cases). Homosexual or bisexual men who have used IV drugs comprise 8% of all cases (8% of males; 0.4% of females). Heterosexual sex partners of persons with AIDS or at risk for AIDS represent 4% of all cases (2% of males and 27% of females). This latter category includes persons without other identified risks who were born in countries in which heterosexual transmission is believed to play a major role. Recipients of transfused blood or blood components account for 2% of all cases (1% of males and 10% of females). For 3% of AIDS patients (3% of males and 11% of females), the possible means of disease acquisition is undetermined. Except for women with a coagulation disorder, the number of AIDS cases reported per year continues to increase in all patient groups (Table 2).

AIDS patients reported as not belonging to recognized risk groups are investigated by local health officials to determine if possible risk factors exist. Of all AIDS patients reported to CDC who were initially identified as not belonging to a risk group and who were available for follow-up, 72% have been reclassified because risk factors were identified or because the patient was found not to meet the surveillance case definition. Of the 853 AIDS patients currently listed as not belonging to recognized risk groups, information is incomplete on 206 due to: death (158), refusal to be interviewed (34), or loss to followup (14). Of the remaining 647 patients, 458 are currently under investigation. No risk was identified for 189 patients who were interviewed or for whom other followup information was obtained. However, of those patients responding to a standardized questionnaire, 40/125 (32%) gave histories of gonorrhea and/or syphilis, and 19 of the 70 men (27%) gave a history of prostitute contact, indicating that these AIDS patients were at potential risk for other sexually-transmitted infections.

The availability of laboratory tests to detect human T-cell lymphotropic virus type III/lymphadenopathy-associated virus (HTLV-III/LAV)[†] antibody made it possible to increase the sensitivity and specificity of the AIDS case definition used for national reporting (3). Of the AIDS case reports submitted to CDC, HTLV-III/LAV antibody test results were included for 6,897 (24.5%) of patients (6,558 with recognized risk factors and 339 for whom no risk has been identified). Eighty-nine (1.4%) of the tested patients with recognized risk factors, compared with 27 (8%) of those without identified risk factors were reported negative for HTLV-III/LAV antibody ($p < 0.001$).

*Patient groups are hierarchically ordered; patients with multiple risk factors are tabulated only in the group listed first.

[†]The AIDS virus has been variously termed human T-lymphotropic virus type III (HTLV-III/LAV), lymphadenopathy-associated virus (LAV), AIDS-associated retrovirus (ARV), or human immunodeficiency virus (HIV). The designation "human immunodeficiency virus" (HIV) has been accepted by a subcommittee of the International Committee for the Taxonomy of Viruses as the appropriate name for the retrovirus that has been implicated as the causative agent of AIDS (Science 1986;232:697).

TABLE 2. Acquired immunodeficiency syndrome (AIDS) cases reported yearly increases — United States, through December 8, 1986

Transmission category	Before 12/8/82	12/9/82- 12/8/83		No.
	No.	No.	(% Inc)*	
Adult male				
Homosexual/bisexual only	562	1,252	(123)	2,771
IV drug user only	98	295	(201)	501
Both homosexual/IV drug user	74	194	(162)	362
Hemophilia/coagulation disorder	8	11	(83)	19
Other heterosexual contact				
Sexual contact	1	1	(0)	2
Non-U.S. born†	40	68	(70)	108
Transfusion	1	14	(1300)	15
Undetermined	16	51	(219)	67
Male subtotal	798	1,886	(136)	3,974
Adult female				
IV drug user only	26	79	(204)	105
Hemophilia/coagulation disorder	0	0	—	0
Other heterosexual contact				
Sexual contact	7	20	(186)	27
Non-U.S. born†	9	12	(33)	21
Transfusion	2	12	(500)	14
Undetermined	7	17	(143)	24
Female subtotal	51	140	(175)	196
Adult subtotal	849	2,026	(139)	4,170
Pediatric	1	41	(4,000)	42
Total	850	2,067	(143)	4,212

*Percent increase.

†Includes persons without other identified risks who were born in countries whose precise means of transmission have not yet been fully defined.

reported, by transmission category, by year, and with percentage of

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12/9/83- 12/8/84		12/9/84- 12/8/85		12/9/85- 12/8/86		Total
No.	(% Inc)*	No.	(% Inc)*	No.	(% Inc)*	
2,720	(117)	5,306	(95)	8,322	(57)	18,162
561	(90)	1,132	(102)	1,674	(48)	3,760
396	(104)	576	(45)	925	(61)	2,165
31	(182)	66	(113)	119	(80)	233
10	(900)	20	(100)	49	(145)	81
96	(41)	111	(16)	146	(32)	461
28	(100)	96	(243)	185	(93)	324
81	(59)	158	(95)	342	(116)	648
3,923	(108)	7,465	(90)	11,762	(58)	25,834
152	(92)	276	(82)	430	(56)	963
2	-	2	(0)	3	(50)	7
47	(135)	100	(113)	230	(130)	404
13	(8)	31	(138)	45	(45)	110
20	(67)	57	(185)	90	(58)	181
24	(41)	65	(171)	92	(42)	205
258	(84)	531	(106)	890	(68)	1,870
4,181	(106)	7,996	(91)	12,652	(58)	27,704
50	(22)	124	(148)	178	(44)	394
4,231	(105)	8,120	(92)	12,830	(58)	28,098

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tries in which heterosexual transmission is believed to play a major role although

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Pediatric patients. Among 394 AIDS patients < 13 years of age, 347 (88%) are < 5 years old. Of those, 20% are white; 57%, black; and 22%, Hispanic. Fifty-five percent are male. Fifty-two percent were diagnosed with PCP, 47% with other opportunistic diseases and no PCP, and 1% with KS alone. Three hundred and eleven (79%) pediatric patients came from families in which one or both parents had AIDS or were at increased risk for developing AIDS; 22 (6%) had hemophilia and 51 (13%) had received transfusions of blood or blood components before onset of illness. Risk factor information on the parents of the 10 (3%) remaining cases is incomplete. Pediatric patients have been reported from 29 states, the District of Columbia, and Puerto Rico; reported cases per area ranged from one to 141 (median = 4). Over 72% of the 311 pediatric patients who acquired infection perinatally are residents of Florida, New Jersey, and New York.

Other modes of transmission. There continues to be no evidence of nonspecific transmission through casual contact; insect bites; or foodborne, waterborne, or environmental spread among AIDS cases. The situation is most clear in the 5- to 15-year-old age group, which lies between the youngest children for whom perinatal transmission is the most important and the adult age groups where sexual and drug related transmission predominates. Five to 15 year olds, who include the majority of school children, comprise 16% of the U.S. population (6). However, only 62 AIDS cases (0.2% of total cases) have occurred in this large group, which is

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TABLE I. Summary—cases specified notifiable diseases, United States

Disease	49th Week Ending			Cumulative, 49th Week Ending		
	Dec. 6, 1986	Dec. 7, 1985	Median 1981-1985	Dec. 6, 1986	Dec. 7, 1985	Median 1981-1985
Acquired Immunodeficiency Syndrome (AIDS)	81	215	N	11,990	7,478	N
Aseptic meningitis	260	189	180	10,028	9,820	9,170
Encephalitis: Primary (arthropod-borne & unspecified)	29	15	24	1,151	1,235	1,454
Post-infectious	1	2	2	94	114	87
Gonorrhea: Civilian	15,838	17,146	18,805	834,598	836,455	850,539
Military	227	248	481	16,779	19,594	22,726
Hepatitis: Type A	500	530	530	21,269	21,629	21,629
Type B	501	516	535	24,009	24,675	22,559
Non A, Non B	74	78	N	3,270	3,840	N
Unspecified	82	115	144	4,188	5,412	6,830
Legionellosis	21	12	N	755	725	N
Leprosy	5	3	5	233	345	226
Malaria	13	22	19	1,042	973	973
Measles: Total*	40	13	14	5,965	2,717	2,530
Indigenous	40	11	N	5,567	2,283	N
Imported	-	2	N	292	434	N
Meningococcal infections: Total	49	64	58	2,280	2,254	2,564
Civilian	49	64	58	2,278	2,247	2,549
Military	-	-	-	2	7	13
Mumps	274	60	60	5,170	2,769	3,098
Pertussis	57	69	29	4,008	3,344	2,179
Rubella (German measles)	3	-	12	480	801	826
Syphilis (Primary & Secondary): Civilian	462	428	600	25,442	25,246	29,271
Military	1	1	4	147	151	355
Toxic Shock syndrome	11	4	N	329	349	N
Tuberculosis	527	493	521	20,623	20,112	22,062
Typhoid fever	4	4	4	184	172	264
Typhoid fever, tick-borne (RMSF)	3	12	12	292	366	375
Rabies, animal	3	8	5	738	683	954
	52	114	93	5,059	5,096	5,670

TABLE II. Notifiable diseases of low frequency, United States

	Cum. 1986		Cum. 1986
Anthrax	-	Leptospirosis (Ky. 1)	38
Botulism: Foodborne	18	Plague	8
Infant	64	Polio myelitis, Paralytic	1
Other	1	Psittacosis	88
Brucellosis (Fla. 1)	78	Rabies, human	-
Cholera (Ga. 1)	17	Tetanus (S.S. 1)	60
Congenital rubella syndrome	10	Trichinosis	31
Congenital syphilis, ages < 1 year	107	Typhoid fever: flea-borne (endemic, murine) (Tex. 1)	47
Diphtheria	-		

* There were no cases of internationally imported measles reported for this week.

TABLE III. Cases of specified notifiable diseases, United States, weeks ending
December 6, 1986 and December 7, 1985 (49th Week)

Reporting Area	AIDS	Aseptic Mening- itis	Encephalitis		Gonorrhea (Civilian)		Hepatitis (Viral, by type)				Legionel- losis	Leprosy
			Primary	Post-in- fectious	by type							
					A	B	NA/NB	Unspeci- fied				
	Cum 1986	1986	Cum 1986	Cum 1986	Cum 1986	Cum 1985	1986	1986	1986	1986	1986	Cum 1986
UNITED STATES	11,990	260	1,151	94	834,596	836,455	500	501	74	92	21	233
NEW ENGLAND	469	7	29	3	22,430	21,397	9	49	4	9	-	8
Maine	20	-	2	-	800	1,086	-	1	-	-	-	-
NH	13	-	2	-	537	531	-	-	-	-	-	-
VT	5	1	4	2	252	320	2	-	-	-	-	-
Mass	252	5	5	-	8,124	8,918	6	35	3	8	-	-
RI	31	1	-	-	1,768	1,769	1	1	-	-	-	-
Conn	146	-	16	1	10,949	8,773	-	12	1	1	-	-
MID ATLANTIC	4,394	22	107	10	146,027	121,320	24	52	6	10	-	19
Upstate N.Y.	469	11	36	6	17,635	17,007	5	17	1	-	-	-
N.Y. City	2,995	1	20	1	84,374	59,095	-	2	-	7	-	17
N.J.	962	4	10	-	18,716	18,360	7	16	-	2	-	-
Pa.	268	6	41	3	25,302	26,858	12	17	5	1	-	1
E N CENTRAL	718	42	350	11	108,053	109,065	20	39	6	2	6	4
Ohio	154	16	135	3	27,531	29,629	6	10	3	-	4	-
Ind.	59	6	81	3	12,010	12,186	3	3	-	2	-	-
Ill.	341	3	50	4	25,465	25,293	1	3	-	-	-	-
Mich.	126	17	56	1	35,480	31,466	10	23	3	-	2	1
Wis.	38	-	28	-	7,315	10,491	-	-	-	-	-	-
W N CENTRAL	230	19	88	10	36,008	39,329	11	13	2	-	2	4
Miss.	89	12	39	-	5,172	5,778	4	3	-	-	-	2
Iowa	19	2	27	-	3,674	4,173	3	2	-	-	1	-
Mo.	73	4	3	-	17,777	19,104	2	7	1	-	-	-
N. Dak.	3	-	4	1	290	267	-	-	-	-	-	-
S. Dak.	2	-	11	-	732	747	1	1	-	-	-	-
Neb.	11	-	1	-	2,682	3,339	-	-	-	-	1	-
Kans.	34	1	3	8	5,681	5,921	1	-	1	-	-	2
S ATLANTIC	1,719	26	147	37	216,166	218,349	31	112	10	2	5	3
Del.	22	2	6	-	3,534	4,237	1	3	-	-	1	-
Md.	180	3	33	1	25,752	27,886	7	28	1	-	2	-
D.C.	215	1	1	1	16,235	14,912	-	3	-	-	-	-
Va.	150	2	40	1	17,894	18,118	-	2	-	-	-	1
W. Va.	9	1	15	-	2,085	2,452	-	1	-	-	-	-
N.C.	74	-	18	2	33,717	34,465	6	14	1	-	2	-
S.C.	48	1	-	-	18,399	20,528	1	7	-	-	-	-
Ga.	262	4	-	1	35,977	42,386	6	25	2	1	-	-
Fla.	760	12	4	31	62,573	53,365	10	29	6	1	-	2
E S CENTRAL	147	33	63	4	68,555	72,488	-	21	5	3	-	1
Ky.	28	8	30	1	7,396	8,337	-	5	2	-	-	-
Tenn.	70	5	8	1	25,069	27,787	-	7	2	3	-	-
Ala.	25	21	24	2	19,511	21,702	-	8	1	-	-	1
Miss.	24	1	1	-	14,579	14,662	-	1	-	-	-	-
W S CENTRAL	1,053	54	182	6	97,863	104,819	51	43	6	21	2	24
Ark.	29	2	-	2	9,171	9,882	3	2	1	-	-	1
La.	147	2	16	-	16,970	19,712	8	14	1	2	-	1
Okla.	41	13	21	-	11,120	11,731	3	4	1	-	2	-
Tex.	836	37	145	4	60,402	63,494	37	23	3	19	-	22
MOUNTAIN	320	4	39	1	24,625	26,827	76	37	5	8	3	13
Mont.	4	-	1	1	641	761	-	1	-	-	-	-
Idaho	3	-	-	-	820	931	6	1	1	-	-	-
Wyo.	4	-	2	-	510	601	-	-	-	-	-	-
Colo.	154	1	5	-	6,320	7,715	4	-	1	3	-	3
N. Mex.	23	-	3	-	2,613	2,932	30	6	1	1	1	-
Ariz.	79	3	18	-	7,949	8,129	24	22	-	4	1	7
Utah	18	-	8	-	1,045	1,281	7	3	1	-	1	1
Nev.	35	-	2	-	4,727	4,277	5	5	-	-	-	2
PACIFIC	2,940	53	146	12	117,069	123,061	278	135	30	37	3	157
Wash.	153	13	13	-	8,484	9,505	66	37	3	18	-	17
Oreg.	59	-	-	-	5,123	6,041	32	10	4	-	-	-
Calif.	2,666	32	125	12	100,028	102,956	180	81	23	19	3	105
Alaska	12	2	7	-	2,478	2,965	-	4	-	-	-	-
Hawaii	50	6	1	-	1,208	1,594	-	3	-	-	-	34
Guam	-	-	-	-	207	188	-	-	-	-	-	1
PR	115	1	5	1	2,293	2,967	3	12	-	2	-	7
VI	4	-	-	-	308	382	-	1	-	-	-	-
Pac. Trust Terr.	-	-	-	-	451	766	2	-	-	1	-	63
Amer. Samoa	-	-	-	-	56	-	-	-	-	-	-	3

N Not notifiable

U Unavailable

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending
December 6, 1986 and December 7, 1986 (49th Week)

Reporting Area	Malaria	Measles (Rubella)				Meningo- coccal infections	Mumps		Pertussis			Rubella			
		Indigenous		Imported *			Total								
		Cum. 1986	1986	Cum. 1986	1986	Cum. 1986	Cum. 1986	1986	Cum. 1986	1986	Cum. 1986	Cum. 1985	1986	Cum. 1986	Cum. 1985
UNITED STATES	1,042	40	5,667	-	292	2,717	2,280	274	5,170	57	4,006	3,344	3	480	601
NEW ENGLAND	63	-	88	-	16	128	180	3	68	14	173	206	-	9	13
Maine	2	-	12	-	1	1	27	-	-	-	2	9	-	-	-
N.H.	4	-	43	-	-	-	6	-	14	-	82	112	-	1	3
Vt.	2	-	-	-	-	-	19	-	4	-	3	3	-	1	-
Mass.	32	-	24	-	13	118	46	-	14	14	56	49	-	4	6
R.I.	7	-	2	-	-	21	2	13	-	6	22	-	-	2	-
Conn.	16	-	7	-	2	7	41	1	23	-	24	11	-	1	4
MID ATLANTIC	145	2	1,731	-	34	232	383	3	206	2	204	247	-	37	228
Upstate N.Y.	51	-	77	-	24	85	126	2	68	1	125	119	-	27	18
N.Y. City	31	-	723	-	4	79	71	-	29	-	10	29	-	5	185
N.J.	37	-	905	-	4	28	30	-	51	-	20	11	-	5	11
Pa.	28	2	28	-	2	40	136	1	58	1	48	88	-	-	14
E. N. CENTRAL	61	32	1,120	-	28	582	340	182	3,373	2	383	807	-	49	38
Ohio	19	-	-	-	10	60	137	3	135	-	167	117	-	1	-
Ind.	2	-	27	-	11	57	38	3	43	1	36	201	-	-	1
Ill.	16	1	703	-	4	346	74	124	2,536	-	36	75	-	38	20
Mich.	20	31	106	-	-	80	73	52	391	1	38	48	-	8	16
Wis.	4	-	284	-	3	59	17	-	288	-	105	366	-	2	1
W. N. CENTRAL	30	-	324	-	17	12	109	10	171	2	1,408	247	-	14	19
Minn.	8	-	45	-	4	6	23	2	20	-	48	126	-	1	2
Iowa	1	-	133	-	1	-	11	5	62	-	19	33	-	1	1
Mo.	12	-	26	-	6	3	39	1	25	2	24	33	-	1	7
N. Dak.	2	-	-	-	-	-	-	-	4	-	5	10	-	1	2
S. Dak.	2	-	-	-	-	-	-	-	1	-	5	-	-	-	-
Nebr.	4	-	1	-	-	-	11	2	2	-	10	11	-	-	-
Kans.	3	-	94	-	5	1	19	-	57	-	1,288	29	-	10	7
S. ATLANTIC	124	-	775	-	58	340	407	5	247	14	763	549	1	12	52
Del.	1	-	1	-	-	-	5	-	-	-	227	12	-	-	1
Md.	14	-	26	-	9	115	47	3	29	-	164	317	1	1	6
D.C.	6	-	-	-	1	31	5	-	1	-	-	-	-	-	-
Va.	33	-	36	-	24	28	71	1	45	9	50	20	-	-	2
W. Va.	4	-	2	-	-	33	4	1	49	-	26	4	-	-	9
N.C.	7	-	3	-	1	9	63	-	28	3	82	35	-	-	1
S.C.	6	-	274	-	-	3	45	-	28	-	15	2	-	-	3
Ga.	13	-	79	-	14	8	58	-	28	1	133	98	-	-	-
Fla.	40	-	354	-	7	113	109	-	51	1	63	71	-	11	29
E.S. CENTRAL	21	-	63	-	9	7	115	60	224	-	47	69	-	4	3
Ky.	6	-	-	-	6	5	26	-	6	-	5	8	-	4	3
Tenn.	1	-	57	-	1	1	37	60	213	-	16	27	-	-	-
Ala.	10	-	1	-	1	-	38	-	4	-	25	27	-	-	-
Miss.	4	-	5	-	1	1	14	-	1	-	1	7	-	-	-
W.S. CENTRAL	106	-	680	-	38	452	214	4	272	2	252	548	-	71	42
Ark.	1	-	276	-	2	-	30	-	61	-	20	14	-	1	1
La.	18	-	4	-	-	42	26	-	3	-	15	17	-	-	3
Okla.	12	-	37	-	2	1	31	N	N	2	128	166	-	-	2
Tex.	75	-	363	-	34	409	127	4	208	-	89	351	-	70	39
MOUNTAIN	39	-	303	-	29	541	106	4	252	5	278	224	-	24	6
Mont.	1	-	-	-	8	137	10	-	6	-	20	10	-	2	-
Idaho	1	-	1	-	-	137	4	1	9	3	40	19	-	-	2
Wyo.	12	-	-	-	-	5	2	-	-	-	4	1	-	-	-
Colo.	12	-	2	-	8	15	20	-	17	-	66	88	-	1	-
N. Mex.	5	-	33	-	7	6	12	N	N	2	28	13	-	-	2
Ariz.	13	-	252	-	6	241	22	2	195	-	85	40	-	2	1
Utah	4	-	13	-	-	-	10	-	15	-	42	53	-	15	-
Nev.	3	-	2	-	-	-	26	1	10	-	4	-	-	3	1
PACIFIC	453	6	583	-	65	425	466	3	357	16	498	447	2	280	200
Wash.	32	-	140	-	28	142	83	1	19	2	151	85	-	17	14
Oreg.	19	-	7	-	4	5	38	N	N	2	16	50	-	4	2
Calif.	401	6	409	-	31	254	341	1	306	1	298	255	2	233	136
Alaska	-	-	-	-	-	-	14	-	8	-	5	30	-	-	-
Hawaii	1	-	27	-	2	24	13	1	24	11	31	17	-	6	48
Guam	1	-	4	-	1	11	1	-	4	-	-	-	-	4	3
P.R.	4	-	36	-	-	67	4	1	34	-	19	16	-	62	27
V.I.	-	-	-	-	-	10	-	-	17	-	-	-	-	-	-
Pac. Trust Terr.	-	-	-	-	-	-	1	-	11	-	-	-	-	1	3
Amer. Samoa	-	-	2	-	-	-	-	-	5	-	-	-	-	-	1

*For measles only, imported cases includes both out-of-state and international importations.

N Not notifiable U Unavailable I International O Out-of-state

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending
December 6, 1986 and December 7, 1985 (49th Week)

Reporting Area	Syphilis (Civilian) (Primary & Secondary)		Toxic- shock Syndrome	Tuberculosis		Tula- ræmia	Typhoid Fever	Typhus Fever (Tick-borne) (RMSF)	Rabies, Animal
	Cum 1986	Cum 1985	1986	Cum 1986	Cum 1985	Cum 1986	Cum 1986	Cum 1986	Cum 1986
UNITED STATES	25,442	25,245	11	20,623	20,112	154	292	738	5,059
NEW ENGLAND	464	556	1	635	673	1	16	13	8
Maine	19	16	-	34	45	-	-	-	-
NH	10	38	-	23	22	-	-	2	1
VT	9	7	-	16	8	-	-	-	2
Mass	253	275	1	353	397	1	13	4	-
RI	19	17	-	42	50	-	-	3	3
Conn	154	203	-	167	151	-	3	4	2
MID ATLANTIC	3,567	3,411	-	4,049	3,558	1	24	40	641
Upstate NY	172	252	-	590	609	-	4	20	81
N.Y. City	2,017	2,066	-	2,113	1,749	-	2	5	-
N.J.	618	653	-	688	479	1	11	2	17
Pa	760	440	-	658	721	-	1	13	543
E.N. CENTRAL	812	928	1	2,440	2,459	1	23	46	137
Ohio	117	140	1	431	426	-	9	40	16
Ind	108	78	-	262	318	-	2	-	17
Ill	370	414	-	1,060	1,073	-	3	2	39
Mich	177	236	-	580	505	1	6	4	25
Wis	40	60	-	107	137	-	3	-	40
W.N. CENTRAL	198	220	-	606	573	41	9	48	796
Miss	31	44	-	144	119	-	2	1	131
Iowa	8	18	-	48	56	1	-	1	180
Mo	104	121	-	296	277	30	6	24	68
N. Dak	5	2	-	10	10	-	-	1	150
S. Dak	9	6	-	28	31	3	-	6	178
Nebr	11	7	-	14	18	1	-	5	35
Kansas	30	22	-	66	62	6	1	10	54
S. ATLANTIC	7,727	7,227	-	4,154	4,162	13	46	331	1,272
Del	55	36	-	42	42	-	1	1	1
Md	435	476	-	289	379	2	16	29	559
D.C.	287	318	-	152	146	-	-	-	31
Va	320	286	-	356	416	3	10	51	192
W. Va	20	26	-	115	105	-	3	10	56
N.C.	502	640	-	624	554	3	4	128	10
S.C.	656	768	-	527	497	-	-	71	64
Ga	1,420	1,315	-	700	712	4	-	39	196
Fla	4,032	3,362	-	1,349	1,311	-	8	2	163
E.S. CENTRAL	1,688	1,963	1	1,836	1,740	15	4	111	357
Ky	65	65	-	415	428	7	-	22	102
Tenn	595	606	-	537	525	6	1	46	138
Ala	486	627	1	567	507	1	1	25	114
Miss	542	665	-	317	280	1	2	18	3
W.S. CENTRAL	4,945	5,840	5	2,661	2,556	67	30	138	691
Ark	243	314	-	363	299	49	-	16	158
La	877	1,023	-	393	369	1	1	1	22
Okla	137	180	5	236	236	12	2	103	58
Tex	3,688	4,323	-	1,667	1,652	5	27	18	453
MOUNTAIN	588	731	2	501	542	12	16	10	634
Mont	7	6	1	31	46	1	1	4	204
Idaho	14	7	-	23	25	-	-	2	9
Wyo	4	14	-	-	7	-	-	-	269
Colo	131	206	-	55	85	3	1	3	29
N. Mex	68	120	-	94	83	2	1	-	6
Ariz	239	307	-	230	239	-	9	-	99
Utah	18	11	1	31	21	4	3	-	7
Nev	107	60	-	37	36	1	1	-	11
PACIFIC	5,453	4,389	1	3,741	3,849	3	124	1	523
Wash	152	103	-	203	208	1	3	-	5
Oreg	110	103	-	119	128	-	-	-	1
Calif	5,145	4,092	1	3,204	3,237	1	114	1	509
Alaska	11	-	-	46	95	1	-	1	8
Hawaii	35	67	-	169	181	-	6	-	-
Guam	1	2	-	35	38	-	1	-	-
PR	819	833	-	310	333	-	5	-	46
VI	1	3	-	1	1	-	-	-	-
Pac. Trust Terr	246	128	-	89	75	-	49	-	-
Amer Samoa	1	-	-	5	-	-	-	-	-

U Unavailable

TABLE IV. Deaths in 121 U.S. cities,* week ending
December 6, 1986 (49th Week)

Reporting Area	All Causes, By Age (Years)						P&I** Total	Reporting Area	All Causes, By Age (Years)						P&I** Total
	All Ages	≥65	45-64	25-44	1-24	<1			All Ages	≥65	45-64	25-44	1-24	<1	
NEW ENGLAND	824	566	165	50	22	21	64	S. ATLANTIC	1,490	895	342	153	45	53	58
Boston, Mass.	207	129	49	15	6	8	24	Atlanta, Ga.	132	86	31	10	4	1	3
Bridgport, Conn.	68	44	14	6	3	1	6	Baltimore, Md.	288	171	64	21	13	19	10
Cambridge, Mass.	30	21	7	2	-	-	2	Charlotte, N.C.	92	68	12	9	1	4	7
Fall River, Mass.	43	29	12	1	-	-	-	Jacksonville, Fla.	160	89	43	14	3	2	9
Hartford, Conn.	76	46	19	7	2	2	3	Miami, Fla.	95	54	25	13	2	1	1
Lowell, Mass.	36	27	9	-	-	-	2	Norfolk, Va.	72	44	7	13	2	6	2
Lynn, Mass.	27	23	3	1	-	-	2	Richmond, Va.	93	52	26	9	3	3	8
New Bedford, Mass.	42	32	7	2	-	1	1	Savannah, Ga.	47	22	14	6	1	4	2
New Haven, Conn.	49	33	10	3	2	1	4	St. Petersburg, Fla.	143	120	17	3	3	-	4
Providence, R.I.	74	54	12	2	1	5	6	Tampa, Fla.	76	44	21	7	-	2	5
Somerville, Mass.	10	8	1	1	-	-	-	Washington, D.C.	288	133	82	48	14	11	6
Springfield, Mass.	57	43	6	3	5	-	2	Wilmington, Del.	15	15	-	-	-	-	1
Waterbury, Conn.	41	28	8	4	1	-	5								
Worcester, Mass.	64	49	8	3	1	3	7								
MID ATLANTIC	3,096	2,009	617	308	71	89	154	E.S. CENTRAL	874	581	217	55	17	24	45
Albany, N.Y.	63	45	10	4	2	2	1	Birmingham, Ala.	108	88	31	6	1	2	3
Allentown, Pa.	21	13	7	1	-	-	-	Chattanooga, Tenn.	95	33	19	2	1	-	1
Buffalo, N.Y.	1130	124	31	10	7	9	14	Knoxville, Tenn.	67	44	13	5	3	2	10
Camden, N.J.	57	41	8	5	2	1	1	Louisville, Ky.	93	65	19	5	-	4	3
Elizabeth, N.J.	42	29	7	6	-	-	2	Memphis, Tenn.	291	187	71	21	6	6	20
Encl. Pa.	49	39	9	-	1	-	2	Mobile, Ala.	71	46	18	4	2	1	3
Jersey City, N.J.	53	37	12	3	-	1	-	Montgomery, Ala.	45	27	11	2	-	5	2
N.Y. City, N.Y.	1,613	999	329	197	47	41	68	Nashville, Tenn.	144	91	35	10	4	4	3
Newark, N.J.	95	45	21	23	3	5	3								
Paterson, N.J.	31	22	6	3	-	-	4	W.S. CENTRAL	1,490	931	306	141	44	68	50
Philadelphia, Pa.	418	264	92	31	11	20	20	Austin, Tex.	72	43	16	8	5	5	5
Reading, Pa.	82	58	18	2	1	3	9	Baton Rouge, La.	84	35	9	6	1	3	3
Rochester, N.Y.	123	93	21	6	-	3	12	Corpus Christi, Tex.	59	40	9	6	2	2	1
Schenectady, N.Y.	33	24	7	1	-	-	4	Dallas, Tex.	238	136	45	24	10	23	7
Scranton, Pa.	32	23	8	1	-	-	-	El Paso, Tex.	74	54	12	6	2	-	6
Syracuse, N.Y.	92	70	15	4	1	2	6	Fort Worth, Tex.	96	65	24	6	1	-	-
Trenton, N.J.	35	20	7	7	-	1	2	Houston, Tex.	317	183	72	45	3	14	6
Utica, N.Y.	28	24	3	1	-	-	1	Little Rock, Ark.	77	46	19	7	2	3	3
Yonkers, N.Y.	29	21	4	2	-	1	5	New Orleans, La.	147	87	30	10	5	15	1
								San Antonio, Tex.	191	118	43	14	11	5	12
								Shreveport, La.	50	39	5	3	1	2	1
								Tulsa, Okla.	115	85	22	6	1	1	5
E.N. CENTRAL	2,653	1,750	581	182	72	68	107	MOUNTAIN	727	463	188	49	24	41	30
Akron, Ohio	87	66	19	7	1	4	-	Albuquerque, N.Mex.	95	57	24	9	2	2	4
Canton, Ohio	42	14	15	12	1	-	3	Colorado Springs, Colo.	52	36	9	4	1	2	5
Chicago, Ill.	554	362	125	45	10	22	16	Denver, Colo.	143	81	32	6	7	17	5
Cincinnati, Ohio	130	76	37	10	7	-	10	Las Vegas, Nev.	109	59	32	10	3	4	3
Cleveland, Ohio	185	102	44	12	4	3	1	Ogden, Utah	24	20	2	-	2	-	5
Columbus, Ohio	130	80	33	10	1	6	-	Phoenix, Ariz.	136	82	27	12	3	12	1
Dayton, Ohio	161	114	31	8	6	2	5	Pueblo, Colo.	23	22	-	-	-	1	1
Detroit, Mich.	369	229	83	36	15	6	9	Salt Lake City, Utah	43	32	6	2	3	-	2
Evansville, Ind.	59	44	10	3	1	1	2	Tucson, Ariz.	102	74	16	6	3	3	4
Fort Wayne, Ind.	68	20	3	2	2	7	-								
Gary, Ind.	11	6	4	1	-	-	-	PACIFIC	2,126	1,436	385	182	43	69	113
Grand Rapids, Mich.	86	48	12	3	1	2	6	Berkeley, Calif.	23	14	5	2	-	2	1
Indianapolis, Ind.	200	122	60	2	8	8	10	Fresno, Calif.	119	88	20	4	1	6	14
Madison, Wis.	47	32	9	2	2	2	10	Glendale, Calif.	33	28	3	2	-	-	3
Milwaukee, Wis.	169	123	32	10	2	6	6	Honolulu, Hawaii	77	46	19	5	4	3	9
Peoria, Ill.	58	48	5	1	-	3	5	Long Beach, Calif.	50	36	9	4	-	1	4
Rockford, Ill.	53	33	8	4	6	2	3	Los Angeles, Calif.	546	342	114	56	14	11	21
South Bend, Ind.	64	55	6	2	1	-	4	Oakland, Calif.	105	69	17	8	4	7	6
Toledo, Ohio	110	75	20	9	3	3	10	Pasadena, Calif.	38	32	2	2	-	-	1
Youngstown, Ohio	63	53	7	2	1	-	-	Portland, Ore.	125	93	22	6	3	1	8
								Sacramento, Calif.	184	128	32	16	1	7	12
W.N. CENTRAL	945	676	173	45	20	31	58	San Diego, Calif.	202	126	33	23	5	13	10
Des Moines, Iowa	75	59	10	3	2	1	5	San Francisco, Calif.	166	107	32	24	1	2	6
Duluth, Minn.	30	18	8	1	-	-	3	San Jose, Calif.	195	145	30	10	3	7	8
Kansas City, Kans.	51	37	6	2	3	3	1	Seattle, Wash.	147	97	27	13	6	4	3
Kansas City, Mo.	102	70	21	6	1	4	9	Spokane, Wash.	56	38	10	4	1	3	6
Lincoln, Neb.	21	15	6	-	-	-	-	Tacoma, Wash.	60	47	10	3	-	-	-
Minneapolis, Minn.	215	156	35	10	7	7	16								
Omaha, Neb.	115	84	21	7	1	2	10	TOTAL	14,225	9,287	2,934	1,105	359	464	677
St. Louis, Mo.	154	107	32	7	4	4	7								
St. Paul, Minn.	67	53	9	4	-	1	3								
Wichita, Kans.	107	71	25	5	1	5	4								

* Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fatal deaths are not included.

** Pneumonia and influenza.

† Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

†† Total includes unknown ages.

‡ Data not available. Figures are estimates based on average of past 4 weeks.

AIDS - Continued

exposed like other groups to casual contact with HTLV-III/LAV-infected persons, insects, and environmental factors. Of these, 61 (98%) fit into established risk categories. The risk factor investigation is incomplete on the remaining case.

Reported by State and Territorial Epidemiologists; AIDS Program, Center for Infectious Diseases, CDC.

Editorial Note: The number of reported AIDS cases continues to increase. An analysis of past trends using empirical models projects a cumulative case total of 270,000 by 1991 (7,8). The proportion of AIDS cases among most transmission categories has remained relatively constant. The geographic distribution of men and women with AIDS differs significantly ($p < .001$). Most reports of women with AIDS continue to come from Florida, New Jersey, and New York, while these states account for a much smaller proportion of male cases. Since most pediatric AIDS cases result from perinatal transmission of HTLV-III/LAV, the race/ethnicity and geographic distribution of pediatric AIDS patients is similar to that of reported AIDS cases among women.

The proportion of AIDS patients diagnosed with KS is declining (9-11), but most KS (95%) continues to be diagnosed among homosexual or bisexual men. KS alone is infrequently diagnosed among women (3% of cases) and children (4%) with AIDS. The reasons that certain patients develop KS remain unclear (12,13).

Numerous studies and continuing investigations of AIDS patients not belonging to recognized risk groups have not supported the existence of new modes of HTLV-III/LAV transmission (14-17). History of other sexually transmitted diseases among the "no identified risk" group as well as prostitute contact among male AIDS patients suggest that sexual contact with partners whose risk was unrecognized or unreported by the patient may be the mode of HTLV-III/LAV transmission for some of these patients. Given current epidemiologic data, AIDS patients who were born outside the United States and who do not have one of the predominant risk exposures have been moved from the "undetermined" transmission category to the "heterosexual contact" category. This move has increased the "heterosexual contact" category from 2% to 4% of adult cases and has decreased the "undetermined" category from 5% to 3%.

The HTLV-III/LAV antibody test allows further refinement of the case definition, especially in disease categories of lower specificity. CDC proposes, with the advice of outside consultants, to revise the case definition for national reporting of AIDS. One major objective of this revision is to increase the sensitivity and specificity of the case definition through greater diagnostic use of HTLV-III/LAV antibody test results.

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AIDS — Continued

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*Epidemiologic Notes and Reports***Salmonellosis at a Resort Hotel — Puerto Rico**

Several state health departments and CDC have received reports of salmonellosis in travelers returning from the Hotel Cerromar, Vega Alta, Puerto Rico. Earlier, in July 1986, CDC received reports about travelers returning from this hotel with *Salmonella enteritidis* infections. The Puerto Rico Department of Health investigated, and no additional cases were reported until November. At present, several state health departments have obtained preliminary epidemiologic information about additional cases from recently returning groups.

A New Jersey trade association held a convention at the hotel during the period November 1-8. At least 23 of 141 travelers (16%) complained of acute diarrhea. Two were hospitalized for a week in Puerto Rico, and three were hospitalized upon returning. *S. enteritidis* was isolated from two of these cases. A week later, during the period November 9-19, a New Jersey professional association hosted a convention of 1,400 members and their families at the hotel. The New Jersey State Department of Health contacted a representative sample of the group after receiving a report of four cases in one returning family. The attack rate is estimated to be 10% to 15%; onset dates ranged from November 12 to 22. Eight stool cultures have yielded *Salmonella* Group D, and six of these have been serotyped as *S. enteritidis*. A questionnaire followup is underway to determine whether or not further cases have occurred.

A convention of 800 food distributors, primarily from Connecticut and Massachusetts, was held at the same hotel, in two successive groups, during the period November 2-12. Among the 220 Connecticut residents, 16 (7%) reported diarrheal illness within several days after their visit. The Connecticut State Department of Health Services confirmed nine cases of *S. enteritidis* infection in this group. Followup is underway to more fully evaluate the extent of illness. The Massachusetts Department of Public Health has identified 42 cases (10%) of diarrheal illness among 442 state residents who had attended the same convention. *S. enteritidis* has been isolated from nine of these. Other possible cases are being investigated.

Most recently, CDC has received a report of eight cases of diarrheal illness among attendees of a Puerto Rican trade convention at the hotel during the period November 28-30. Thus far, two of five cultures obtained have yielded *Salmonella* Group D.

Salmonellosis — Continued

Reported by JL Hadler, MD, MPH, State Epidemiologist, Connecticut State Dept of Health Svcs; KM Gallagher, MPH, LM Mofenson, MD, GF Grady, MD, State Epidemiologist, Massachusetts Dept of Public Health; CH Turner, H Rosenfeld, DVM, JW Farrell, MSW, WE Parkin, DVM, State Epidemiologist, New Jersey State Dept of Health; JG Rigau, MD, Commonwealth Epidemiologist, Puerto Rico Dept of Health; Div of Field Svcs, Epidemiology Program Office, Enteric Diseases Br, Div of Bacterial Diseases, Center for Infectious Diseases, CDC.

Editorial Note: Laboratory studies are in progress to determine whether or not the same strain of *S. enteritidis* caused all of the outbreaks. Reports in both July and November of *S. enteritidis* gastroenteritis among persons visiting the same hotel suggest a recurrent source. Measures to control the outbreak are being implemented by the hotel management and the Puerto Rico Department of Health. Cases of salmonellosis developing in persons within 1 week after staying at this hotel should be reported to local and state health departments. State health departments are requested to report such cases to the Enteric Diseases Branch, Division of Bacterial Diseases, CDC. Information about the current status of the outbreak can be obtained by calling the Commonwealth of Puerto Rico, Department of Health, (809) 766-2240.

Recommendation of the Immunization

Practices Advisory Committee (ACIP)

Rabies Prevention: Supplementary Statement on the Preexposure Use of Human Diploid Cell Rabies Vaccine by the Intradermal Route

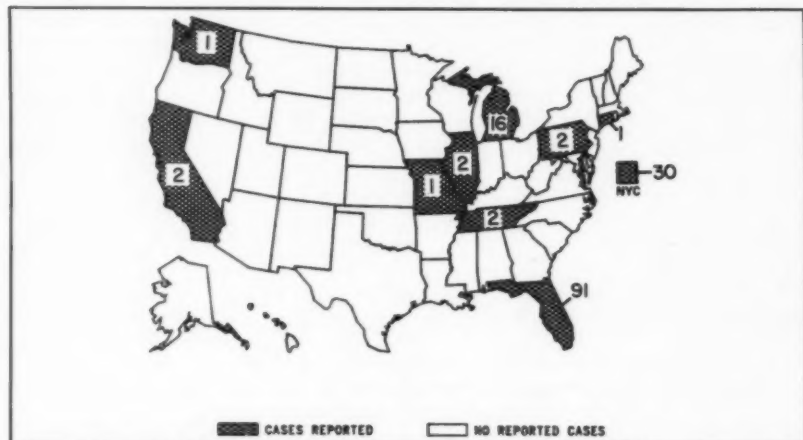
The human diploid cell rabies vaccine (HDCV) produced by the Merieux Institute has been used extensively for preexposure immunization in a regimen of three 0.1-ml doses, one each on days 0, 7, and 21 or 28. The intradermal (ID) dose/route has previously been recommended by the ACIP as an alternative to the 1.0-ml intramuscular (IM) dose/route for rabies preexposure prophylaxis (1), but the manufacturer had not met the packaging and labeling requirements necessary to obtain approval by the U.S. Food and Drug Administration (FDA).

Merieux Institute has now developed a syringe containing a single dose of lyophilized HDCV (Imovax® Rabies ID) that is reconstituted in the syringe just before administration. The syringe is designed to reliably deliver 0.1 ml of HDCV and was approved by the FDA on May 30, 1986. Three 0.1-ml ID doses, given in the lateral aspect of the upper arm, on days 0, 7, and 21 or 28, are used for primary preexposure prophylaxis. One 0.1-ml ID dose is used for booster vaccination (based on previously outlined criteria [1]). Serologic testing is not necessary after preexposure prophylaxis with HDCV administered by either the ID or IM route. *The ID dose/route should not be used for postexposure prophylaxis.*

Chloroquine phosphate (administered for malaria chemoprophylaxis) and unidentified factors (that may include multiple concurrent vaccinations) may interfere with the antibody response to HDCV in persons traveling to developing countries (2,3). The IM dose/route of preexposure prophylaxis provides a sufficient margin of safety in this setting (3). HDCV should not be administered by the ID dose/route while a person is receiving chloroquine for malaria chemoprophylaxis. In persons receiving preexposure prophylaxis in preparation for travel to a rabies endemic area, the ID dose/route should be initiated early enough to allow the three-dose series to be completed 30 days or more before departure. If this is not possible, the IM dose/route should be used.

Rabies — Continued**References**

1. ACIP. Rabies prevention—United States, 1984. *MMWR* 1984;33:393-402, 407-8.
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3. Papaioanou M, Fishbein DB, Dreesen DW, et al. Antibody response to preexposure human-diploid cell rabies vaccine given concurrently with chloroquine. *N Eng J Med* 1986;314:280-4.

FIGURE 1. Reported measles cases — United States, weeks 45-48, 1986

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